QZX

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EDITOR'S NOTES

K5XY

As promised, here is the next issue of QZX about two weeks after the first issue of the year (1994).

The December issue promised a set of schematic symbols but they did not make that issue. They are in this one.

In the last issue I discussed two reasons why the postal rate increase would not result in an increase in the QZX subscription rate. There is yet another reason. There are not any subscriptions coming in. I do get a few inquiries from time to time as a result of a mention on one of the other Sinclair magazines like Update or as a result of a mention by RMG Enterprises, one of the best sources of Sinclair equipment, but few of these inquiries develop into a subscription. And I have to admit the $15 is quite a bit to spend for a relatively little bit of information. But many readers are moving on to other computers and the economy of scale (or rather the lack of it) does not permit a price reduction. Even such a fine, large (but only quarterly) magazine like Update is seriously questioning whether there is enough interest to continue.

Most of the current QZX subscriptions expire before the July issue. I guess I will just wait and see if anybody renews.

CIRCUIT SYMBOLS

K5XY

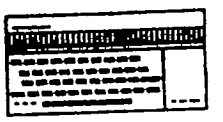
The next page has a collection of circuit symbols. You might ask why put such a page in here. The answer is that these symbols are drawn according to nationally recognized standards. In general, standards are good because they help avoid misunderstanding and help people recognize patterns quickly. This feature is particularly important when larger patterns have meaning. The ARRL uses a standard for their circuit symbols but their standard is slightly different than many others and I always find it slightly time consuming to read their schematics.

One of the things our computers can do, is to draw standard picture. However circuit symbols are not built in so somebody has to program them in individually on the ZX81 and as user defined graphics on the TS 2068. If one is to go to the trouble of programming the symbols one should start with a universally accepted pattern rather than the symbols used in the first magazine picked up. Hence the accepted patterns on the next page.

Unfortunately there is no set of universally accepted symbols. The ones used in Europe and some other parts of the world differ from the ones recommended in the US

On the next page there are two symbols for most circuit elements, one with an American background and another with a European background.

If anybody does program them into one of our Computers, I would appreciate it if you would tell me about your efforts.



ANSI DIN * Components

Analog Components

DC Voltage Source (Battery)

DC Current Source

AC Voltage Source

AC Current Source

Voltage-Controlled Voltage Source

Voltage-Controlled Current Source

Current-Controlled Current Source

Current-Controlled Voltage Source

Resistor

Inductor

Capacitor

Transformer

Relay

Time-Delay Switch

Voltage-Controlled Switch

Current-Controlled Switch

Bulb

Fuse

Diode

Zener Diode

LED

Opamp

NPN BJT

PNP BJT

n-channel JFET

p-channel JFET

3-terminal n-channel depletion MOSFET

3-terminal p-channel depletion MOSFET

4-terminal n-channel depletion MOSFET

4-terminal p-channel depletion MOSFET

3-terminal n-channel enhancement MOSFET

3-terminal p-channel enhancement MOSFET

4-terminal n-channel enhancement MOSFET

4-terminal p-channel enhancement MOSFET

Common Components

Connector

Ground

Switch

Digital Components

DC Battery

NOT Gate

AND Gate

OR Gate

XOR Gate

NAND Gate

NOR Gate

RS Flip-Flop

JK Flip-Flop

D Flip-Flop

Half-Adder

7-Segment Display

Decoded 7-Segment Display

Probe (LED)

73, K5XY

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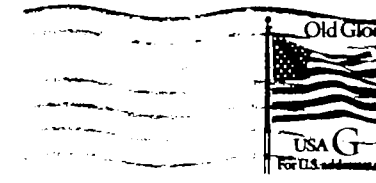

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